

## List Prices and Specifications of "TV" Raptar Lenses

	2" (50mm) f/2.0 Raptar TV	In Barrel With Focusing Mount \$215
	3" (75mm) f/3.5 Raptar TV 3 1/2" (90mm) f/3.5 Raptar TV 4" (101mm) f/3.5 Raptar TV	175 185 200
	5 3/8" (135mm) f/3.8 Raptar TV	240
	8 3/4" f/3.5 Raptar TV	In Barrel With Iris Diaphragm 275
	10" f/4.5 Raptar TV 12" f/4.5 Raptar TV 14" f/4.5 Raptar TV 15" f/4.5 Raptar TV 16" f/4.5 Raptar TV	275 310 320 360 380
	18" f/5.6 Raptar TV 20" f/5.6 Raptar TV 24" f/5.6 Raptar TV	330 450 750

Specify manufacturer of camera when ordering.

*Wollensak*  
OPTICAL CO.  
ROCHESTER, N. Y.

**RAPTAR**  
THE  
**MASTERPIECE**  
OF TV  
LENSSES

**DUMONT**  
TELEVISION  
NETWORK

WARD

**THERE IS ONLY  
ONE RAPTAR...  
THE FINEST LENS  
MADE...  
THE FINEST LENS  
MADE BY WOLLENSAK**



# WOLLENSAK TV RAPTAR LENSES



Wollensak TV Raptar Lenses are specially designed for the television industry . . . built for tomorrow's advancements as well as today's requirements. For example, TV Raptars will resolve more than  $2\frac{1}{2}$  times today's TV requirements. TV Raptars are made complete with camera mounts an integral part of the lens. They are not added afterward by some other supplier. Wollensak TV lenses are designed specifically for TV cameras . . . won't be outmoded by new techniques and improvements in telecasting.

Every step in the manufacture of a Wollensak Raptar, from the grinding, polishing and coating the lens elements to the finished barrels, is precisely and carefully done. The mounting of the lens elements in the barrels is as important as the fine qualities of the lens itself. If the mountings were not exact, lens performance would be impaired or destroyed. Elements must also be mounted strain-free, to exacting requirements. Finally, all lenses must meet very rigid standards and undergo thorough inspection. This assures you the finest of TV images.

There are many other factors that go into fine lens making. Experience is very important. Expert lens making is a trade that must be learned by years of apprenticeship.

Care in development and design is another factor. All lenses bearing the Wollensak name are designed by



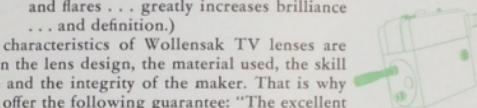
Wollensak lens designers, developed and manufactured in Wollensak plants. This means that the designer knows the equipment, tools and skilled labor necessary to produce the fine lens he has designed.

Choice of highest quality materials is also extremely important. For example, Wollensak's large stock pile of high optical quality glass (e.g. rare earth) permits a wide selection to meet the specific requirements called for in the original design. Only by controlling the selection of glass and by producing the complete product from start to finish within our own plant can the critical qualities required in the original lens design be maintained. Thus, there is never any compromise with quality at Wollensak.

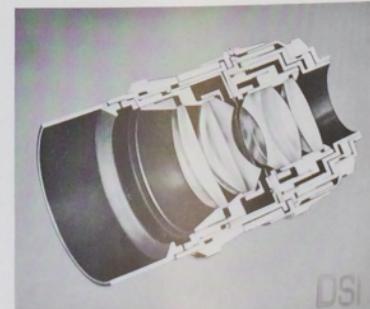
Wollensak TV Raptars are lenses with high resolution without the sacrifice of contrast. They are high contrast, fully color-corrected lenses . . . designed and produced to take better television pictures . . . give full coverage. There is no drop-off from center to edge of picture. In addition, all glass-to-air surfaces of Raptar lenses are Wocoted. (This is the trade name for Wollensak's anti-reflection hard coating that effectively reduces internal light reflections and flares . . . greatly increases brilliance . . . and definition.)

The optical characteristics of Wollensak TV lenses are dependent upon the lens design, the material used, the skill in manufacture and the integrity of the maker. That is why Wollensak can offer the following guarantee: "The excellent performance of Wollensak TV Raptars is unconditionally guaranteed."

As a television producer you will want the finest results obtainable. A fine production is dependent upon your skill, technique and imagination. Get the most from your efforts and use the highest quality lenses . . . TV Raptar Lenses by Wollensak.



*Cutaway of TV Raptar lens showing the lens elements . . . the skill in mounting . . . the carefully machined lens barrel which not only houses and protects the elements, but holds them strain-free and in optical alignment.*



COVER PHOTOGRAPH COURTESY DU MONT TV NETWORK.

*TV cameraman shooting an outdoor spectacle with a Wollensak 40" TV Mirrotel . . . an excellent lens for bringing sporting events up close.*



## WOLLENSAK 20" f/6.3 FOTOTEL, 40" f/8 and 80" f/14 MIRROTEL LENSES

These lenses greatly increase the entertainment possibilities of telecast by delivering extreme close-ups of football, baseball and other outdoor sports and events, when the camera must of necessity be far from the point of action. They are excellent lenses for bringing the audience into the tempo and mood of the action. They will capture those unusual facial expressions of public figures and personalities. You can add this additional human interest to your shows.

Depth of field and definition are of exceptional quality. The lenses are color corrected, have high contrast with full covering power over the entire area and working distances. Resolution all across the screen is far more than required by today's telecasting equipment. Magnification relative to the normal 2" TV lens is as follows: 20" lens—10 times; 40" lens—20 times; 80" lens—40 times. Because the light path is "folded" three times within the system, the length and weight are less than  $\frac{1}{3}$  that of an equivalent refractive telephoto objective, thereby attaining greater stability (extremely important for long focus objectives), ease of operation and superior performance.

Literature and prices are available upon request. When submitting inquiries, please specify the manufacturer of your TV camera.

